

# ENGINEERING CHANGE NOTICE

## DART AEROSPACE LTD

MPP

Date: 17.01.16	Job No.:	ADR Yes/No: N	ADR Date:	ECN #: 17- 506
Product No.: D117-762		Created By: KJ/RF	Approved By:	
Product Name: Skidtube Installations		Checked By:		

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)	Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	N	DM		DQA / QA Coord.	Y	PS / EL	
Production Manager / Coord.	Y	MP / VS		QC Coordinator	Y	PD	
Purchasing Manager / Purchasing Coord.	Y	LL / CL		Customer Support	Y	SW / LM	
Production Engineering Coord.	Y	DD / JLM		Customer Technical Support	Y	MB / HS	
Production Engineering Coord.	N	DL		Marketing	Y	SL / WR	
Customer Order Processing	N	SL / MF		Dist. Management Coord.	Y	HM	

**Reason for Change:**  
 Replace ground handling lugs with structurally superior lug design

**Documents Affected:**  
 Release DSI 9771 Rev A, D2965 Rev C, D3582 Rev D

IF APPLICABLE:    NCR: \_\_\_\_\_    PAR: \_\_\_\_\_    CAR: \_\_\_\_\_    CIR: \_\_\_\_\_    URF: \_\_\_\_\_

PAPERWORK UPDATE    ☒    PARTS MUST COMPLY    ☒    PREVIOUS PARTS SATISFACTORY    ☐

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3	Notify Augusta Westland	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	N			
6	Update Master Document List (MDL)	Y	RF	MDL-D117-762 Rev I	
7	Update Document Record (DR)	N			
8	Update Product Compatability Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	Y	DS		
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	Y	KJ		
12	Update Product Specification Files (Bluefiles)	Y	KJ		
13	Update Approved/Preliminary Dwg PDF Files	Y	KJ		
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	N			
17	Update / Verify Airworthiness Release Certificate Database	N			
18	Create / Update Change Record Form / Item Card Database	Y	KJ	D117-762-011 @ CHG004	
19	Create / Update Packaging Process Plan (PPP)	Y	KJ		
20	Red Decals required on Packaging Process Plan (PPP)?	Y	KJ		
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	Y	KJ		
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	Y	KJ		
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

**Description / Action:**

Update BOM's and Routes to latest revision  
 Please add DSI to all kits in stock and in progress.

NO STOCK ON 117-762

JAN 18 2017

ECN Verified & Complete: \_\_\_\_\_ Date: \_\_\_\_\_



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## DART AEROSPACE LTD

Date:	17.01.16	Job No.:	ADR Yes/No:	N	ADR Date:		ECN #:	17- 506
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Product Name:	Skidtube Installations	Checked By:						

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	N	DM	
Production Manager / Coord.	Y	MP / VS	
Purchasing Manager / Purchasing Coord.	Y	LL / CL	
Production Engineering Coord.	Y	DD / JLM	
Production Engineering Coord.	N	DL	
Customer Order Processing	N	SL / MF	

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
DQA / QA Coord.	Y	PS / ED	
QC Coordinator	Y	PD	
Customer Support	Y	SW / LM	
Customer Technical Support	Y	MB / HS	
Marketing	Y	SL / WR	
Dist. Management Coord.	Y	HM	

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PAPERWORK UPDATE ☒ PARTS MUST COMPLY ☒ PREVIOUS PARTS SATISFACTORY ☐

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3	Notify Augusta Westland	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	N			
6	Update Master Document List (MDL)	Y	RF	MDL-D117-762 Rev I	<i>[Signature]</i> 17.01.17
7	Update Document Record (DR)	N			
8	Update Product Compatibility Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	Y	DS		
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	Y	KJ		17.01.17 <i>[Signature]</i>
12	Update Product Specification Files (Bluefiles)	Y	KJ		17.01.17 <i>[Signature]</i>
13	Update Approved/Preliminary Dwg PDF Files	Y	KJ		17.01.17 <i>[Signature]</i>
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	N			
17	Update / Verify Airworthiness Release Certificate Database	N			
18	Create / Update Change Record Form / Item Card Database	Y	KJ	D117-762-011 @ CHG004	17.01.17 <i>[Signature]</i>
19	Create / Update Packaging Process Plan (PPP)	Y	KJ		17.01.17 <i>[Signature]</i>
20	Red Decals required on Packaging Process Plan (PPP)?	Y	KJ		17.01.17 <i>[Signature]</i>
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	Y	KJ		17.01.17 <i>[Signature]</i>
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	Y	KJ		17.01.17 <i>[Signature]</i>
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

### Description / Action:

Update BOM's and Routes to latest revision  
Please add DSI to all kits in stock and in progress.

*MS20436 still*  
*ANALISA - cancel PO's? 31804 33899*

ECN Verified & Complete: \_\_\_\_\_ Date: \_\_\_\_\_



# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D117-762 REV. E AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D117-762 REV. 4

REF FAA STC: SR01853SE

REF: TC LETTER OF ACCEPTANCE RDIMS-4374899

REF EASA STC: EASA.10017063

## 1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to replace the ground handling lugs (D3864-1 Bushings, AN6C51A Bolts and MS21043-6 Nuts) on the D117-762-XXX Skid tubes with a structurally superior lug design (D5300-1 Bushings, D5301-1 Plugs, AN6C52A Bolts, MS21043-6 Nuts) as shown in Figure 1. The new hardware will be included in D117-762-011 @ CHG 004 and subsequent.

## 2.0 INSTALLATION

For D117-762-011 @ CHG 004 and subsequent, the ground handling hardware should be installed as follows:

- 2.1 Loosely install (qty 2) D5300-1 GHL Bushing & (qty 2) D5301-1 GHL Plug wet with Proseal 890 or MIL-S-8802 Class B2 Sealant in location shown in Figure 1.
- 2.2 Install (qty 2) AN6C52A Bolts and (qty 2) MS21043-6 Nuts in accordance with Figure 1. Clean up squeezed out Proseal and apply fillet seal around D5300-1 & D5301-1.
- 2.3 Torque AN6C52A Bolts 160 - 190 in-lbs (18.1 - 21.5 N-m).

## 3.0 PARTS LIST

For D117-762-011 @ CHG 004 and subsequent, the Part List in IIN-D117-762 and ICA-D117-762 is modified as follows:

**IS**

ITEM	QTY -011	PART NUMBER	DESCRIPTION
	X	D117-762-011	SKIDTUBE INSTALLATION
50	2	AN6C52A	BOLT
51A	2	D5300-1	GHL BUSHING
51B	2	D5301-1	GHL PLUG
52	2	MS21043-6	NUT

A	NEW ISSUE		RF	17.01.09
REV.	DESCRIPTION		BY	DATE
DESIGN	RF	DART AEROSPACE, LTD EUGENE, OR		
DRAWN	RF			
CHECKED	WK	DRAWING NO.	REV.A	
MFG. APPR.	N/A	DSI 9771	SHEET 1 OF 2	
APPROVED	HS	TITLE	SCALE	
DE APPR.		GHL UPGRADE KIT	NTS	
DATE	17.01.09	COPYRIGHT ©2017 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE, LTD.		

## Linda Lacelle

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**From:** Lucie Pilon <Lucie.Pilon@KLX.com>  
**Sent:** Tuesday, January 17, 2017 9:27 AM  
**To:** Linda Lacelle  
**Cc:** Chantal Lavoie  
**Subject:** RE: AN6C51A

**Importance:** High

Bonjour Linda,

The part AN6C51A is already in final production. I will need to verify with the supplier and get back to you on this issue.

Regards,

Lucie Pilon  
Sales Representative

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[Lucie.Pilon@KLX.com](mailto:Lucie.Pilon@KLX.com)  
AOG email: [AOGdesk@KLX.com](mailto:AOGdesk@KLX.com)



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**From:** Linda Lacelle [mailto:llacelle@dartaero.com]

**Sent:** Tuesday, January 17, 2017 9:14 AM

**To:** Lucie Pilon <Lucie.Pilon@KLX.com>

**Cc:** Chantal Lavoie <clavoie@dartaero.com>

**Subject:** AN6C51A

**Importance:** High

Good Morning Lucie,

We just had an engineering change, and will not require the AN6C51A's. we currently have 2 open PO's for these bolts, is there any way of cancelling these and removing them from our LTA and replace them with AN6C52A ?

Thx

Linda Lacelle

Purchasing Manager

**DART AEROSPACE**

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